- 93. Macroscopic amounts of an allotrope of carbon consisting solely of carbon atoms, and soluble in non-polar solvents, which allotrope of carbon is neither graphite nor diamond, and which alleotrope of carbon is isolated from a sooty carbon product formed from vaporizing elemental carbon in the presence of an inert quenching gas.
- 94. An allotrope of carbon consisting solely of carbon atoms isolated as a visible solid, which allotrope of carbon is neither graphite nor diamond.
- 95. A substantially pure product of any one of Claims 89-94.
- 96. A substantially pure crystalline product of any one of Claims 89-94.
- 97. A caged carbon allotrope consisting solely of carbon atoms that is isolated from a sooty carbon product formed from the vaporization of elemental carbon in the presence of an inert quenching gas as a visible product, said allotrope of carbon being neither graphite nor diamond, and said allotrope of carbon being soluble in non-polar organic solvents.
- 98. A solid carbon product prepared by the process comprising:
- (a) vaporizing elemental carbon in the presence of an inert quenching gas under conditions effective to provide a sooty carbon product comprising fullerene molecules;
- (b) depositing the sooty carbon product on a collecting substrate;
- (c) removing the sooty carbon product from the collecting substrate;
- (d) contacting the sooty carbon product with a nonpolar organic solvent effective to dissolve the fullerene molecules in said sooty carbon product; and

